

Amendments to the Claims

This listing of claims will replace all prior versions, and listings, of claims in the application.

Listing of Claims:

1-9. Canceled.

10. (Currently Amended) ~~The fluid control device according to claim 8~~A fluid control device, comprising:

a first fluid path and a second fluid path each having a hollow shape;

a housing portion formed between said first fluid path and said second fluid path and having a hollow portion with a cross sectional area larger than those of said first and second fluid paths; and

a valve member mounted at an opening portion at which said first fluid path communicates with said hollow portion, the valve member having a body and a projection portions,

wherein the body of said valve member is formed of a tubular member which can be inserted into said first fluid path, the tubular member including a side portion having at least one communication portion to allow fluid flow from the first fluid path to the hollow portion, the communication portion of the valve member body portion being a concave portion formed in the side portion of the valve member body portion,

wherein said projection portion is formed at a tip end portion of said tubular member on a side of the hollow portion, and is configured to project towards an inner wall face of said housing portion and have on an inner side of the body a hollow cavity portion which communicates with said communication portion, wherein at least a part of an outer edge portion of said hollow cavity portion sits on the inner wall face of said housing portion to close the fluid flow from the

first fluid path to said hollow portion below a predetermined fluid pressure, but allows the fluid flow above a predetermined fluid pressure in such a way that the outer edge portion sitting on the inner wall face of said housing portion is deformed by the fluid pressure towards the hollow portion, thus producing a gap between the edge portion and a base of the hollow portion,

wherein the housing portion is comprised of a first housing member formed by bulging an end of the first fluid path and a second housing member formed by bulging an end of the second fluid path, and is formed through a fitting of said two housing members without using adhesives, and

wherein the material of the first housing member has a larger thermal contraction compared to the material of the second housing member.

11. (Currently Amended) ~~The fluid control device according to claim 8~~A fluid control device, comprising:

a first fluid path and a second fluid path each having a hollow shape;

a housing portion formed between said first fluid path and said second fluid path and having a hollow portion with a cross sectional area larger than those of said first and second fluid paths; and

a valve member mounted at an opening portion at which said first fluid path communicates with said hollow portion, the valve member having a body and a projection portions,

wherein the body of said valve member is formed of a tubular member which can be inserted into said first fluid path, the tubular member including a side portion having at least one communication portion to allow fluid flow from the first fluid path to the hollow portion, the communication portion of the valve member body portion being a concave portion formed in the side portion of the valve member body portion,

wherein said projection portion is formed at a tip end portion of said tubular member on a side of the hollow portion, and is configured to project towards an inner wall face of said housing portion and have on an inner side of the body a hollow cavity portion which communicates with

said communication portion, wherein at least a part of an outer edge portion of said hollow cavity portion sits on the inner wall face of said housing portion to close the fluid flow from the first fluid path to said hollow portion below a predetermined fluid pressure, but allows the fluid flow above a predetermined fluid pressure in such a way that the outer edge portion sitting on the inner wall face of said housing portion is deformed by the fluid pressure towards the hollow portion, thus producing a gap between the edge portion and a base of the hollow portion,

wherein the housing portion is comprised of a first housing member formed by bulging an end of the first fluid path and a second housing member formed by bulging an end of the second fluid path, and is formed through a fitting of said two housing members without using adhesives, and

wherein the material of the first housing member is polypropylene resin and the material of the second housing member is polycarbonate resin.

12-17. Canceled.